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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/541,663	04/03/2000	Robert H. Adolfsen	MST-1980	4417	
7:	590 08/27/2002				
John M Paolino			EXAMINER		
Bayer Corporation 511 Benedict Avenue			GORDON, BRIAN R		
Tarrytown, NY 10591			ART UNIT	PAPER NUMBER	
			1743		
			DATE MAILED: 08/27/2002	\wp	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		09/541,663	ADOLFSEN ET AL.	H)
	Office Action Summary	Examiner	Art Unit	
		Brian R. Gordon	1743	
Period fo	The MAILING DATE of this communication apports or Reply	pears on the cover sheet w	vith the correspondence addre	ss -
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or tre to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a y within the statutory minimum of thi will apply and will expire SIX (6) MO, cause the application to become A	reply be timely filed inty (30) days will be considered timely. NTHS from the mailing date of this committed the committed into the committed int	⊔nication.
1)⊠	Responsive to communication(s) filed on 01 .	June 0402 .		
2a)⊠		is action is non-final.		
3)	Since this application is in condition for allows closed in accordance with the practice under	ance except for formal ma		erits is
Disposit	ion of Claims			
4)⊠	Claim(s) 52 and 55-57 is/are pending in the a	pplication.		
	4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5)	Claim(s) is/are allowed.			
6)🛛	Claim(s) <u>52, 55-57</u> is/are rejected.			
7)	Claim(s) is/are objected to.			
	Claim(s) are subject to restriction and/o ion Papers	r election requirement.		
	The specification is objected to by the Examine	ır.		
·	The drawing(s) filed on is/are: a)□ accep		the Examiner.	
,	Applicant may not request that any objection to the			
11) 🔲	The proposed drawing correction filed on	_ is: a) ☐ approved b) ☐	disapproved by the Examiner.	
	If approved, corrected drawings are required in rej	ply to this Office action.		
12) 🔲	The oath or declaration is objected to by the Ex	aminer.		
Priority ι	ınder 35 U.S.C. §§ 119 and 120			
13)[Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)	☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority document	s have been received.		
	2. Certified copies of the priority document	s have been received in A	Application No	
* 5	3. Copies of the certified copies of the prior application from the International Buse the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).		ge
	Acknowledgment is made of a claim for domesti	·		olication)
_a) The translation of the foreign language pro Acknowledgment is made of a claim for domesti	ovisional application has t	peen received.	onodaciny.
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1)	e of References Cited (PTO-892) of Oraftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-15	

Application/Control Number: 09/541,663 Page 2

Art Unit: 1743

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed June 4, 2002 have been fully considered but they are not persuasive. Applicant believes that the invention of the instant application is patentably distinct over the prior art of Kumar and Young. Applicant asserts that the structures and methods are not disclosed by the prior art and that Kumar exhibits the very shortcomings which the present invention seeks to overcome. Applicant also states that the prior art of Kumar if combined would not obtained the apparatus and method of the claims 1 and 28. Claims 1 and 28 have been canceled and therefore the limitations of those claims are not of issue. Claims 52 and 55-57 are presently pending. As to the shortcomings to which applicant intends to overcome, it is determined that these shortcomings have no bearing on the patentability of the claims. The specification points out these shortcomings to provide an understanding of the invention. However, the claims are interpreted in light of the specification and in considering the limitations of the claims, the examiner asserts that the prior art of Kumar does meet the limitations of the drafted claims. As to the apparatus claims, it is clear that the device of Kumar encompasses all of the limitations as recited in claim 55 and claims 56-57 recite the intended use of the device. The previous rejection of Paper No. 3 is hereby maintained for the reasons given above and below herein.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

Application/Control Number: 09/541,663 Page 3

Art Unit: 1743

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 52 and 55-57 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to the method of claim 52, it is unclear how the final air segment is adjusted before the first air segment, because it appears if the first segment would be adjusted first since it enters into the system first. It is also unclear how the adjustment of the segment takes place in the second conduit. It would appear that the adjustments takes place in the third conduit at the point where the valve is disposed.

It is unclear how the segments are adjusted according to a feedback loop. What information is used to determine the adjustment? How is the volume adjusted?

Claims 56-57 recite wherein clauses that do not further structurally limit the device of claim 55. The claims are moreso addressed to method steps.

It is unclear if applicant intends to claim the feedback loop of claim 57 as an element of the invention.

4. Claim 52 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: the segments should be transferred to the third conduit before they are adjusted.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Application/Control Number: 09/541,663 Page 4

Art Unit: 1743

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 52-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kumar et al.

Kumar et al. disclose an apparatus and a method for controlling a bi-directional flow stream of liquid packages including the steps required to aspirate multiple test packages. After the first test package is aspirated, the shear valve 130 is then driven by

Application/Control Number: 09/541,663

Art Unit: 1743

drive motor 132 to return to the aspirate position thereof, and sample liquid container 62 containing sample liquid S2 is indexed on transport device 66 by drive motor 68 into position for access by probe tube 42. Piston 34 of pump 31 is then driven by drive motor 36 to the operational bottom dead center position thereof, and probe assembly 40 concomitantly actuated as described relative to sample liquid container 62, and the respective buffer liquid B and reagent liquids R1 and R2 containers 60, 56 and 58. whereupon aspiration as described of a second sample liquid test package TP2 by pump 31 through probe tube 40 into conduit 50, and resultant displacement of the previously aspirated sample liquid test package TP1 from conduit 50 through shear valve 130 into conduit 38, are accomplished; thereby bringing the system 20 of our invention to the operational condition depicted in application drawing FIG. 9. As this occurs, pump 100 may again be cycled through one complete stroke, and pump 116 operated as required, for supply of further isolation liquid IL from isolation liquid reservoir 120 as heretofore described through shear valve 130 to the interior surface of the now connected, but still empty insofar as sample liquid test packages are concerned, analytical line 134.

Although Kumar et al. does not specifically recite the step of employing a means that adjusts the volume of the air segments to equal an optimal volume, it would have been obvious to one of the ordinary skill in the art to recognize that the pumps and valves of the system control the volume of the segments aspirated which allow the system to be placed in an operational condition.

Page 5

Art Unit: 1743

As to the incorporation of a feedback loop, it is obvious that the controller 153 that is used to instruct, control, monitor, and synchronize the operations of the system may be programmed to operate on a basis of the output (feedback loop) of the analysis results as to control the aspiration of samples and shear valve motors.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian R. Gordon whose telephone number is (703) 305-0399. The examiner can normally be reached on M-F, with 2nd and 4th F off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 703-308-4037. The fax phone numbers for

Application/Control Number: 09/541,663

Art Unit: 1743

the organization where this application or proceeding is assigned are (703) 305-7719 for regular communications and (703) 305-3014 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

BRG

August 26, 2002

JAN LUDLOW PRIMARY EXAMINER

Jan Mola

Page 7